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| APPLICATION NO.  | FILING DATE               | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--|---------------------------|----------------------|---------------------|------------------|
| 10/593,698   | 09/20/2006                | Katsumi Iizuka       | L9289.06202         | 3102             |
| 52989<br>Dickinson Wrig  | 7590 08/24/200<br>ht PLLC | EXAMINER             |                     |                  |
| James E. Ledbetter, Esq. International Square 1875 Eye Street, N.W., Suite 1200 Washington, DC 20006 |                           |                      | LU, ZHIYU           |                  |
|  |                           |                      | ART UNIT            | PAPER NUMBER     |
|  |                           |                      | 2618                |                  |
|  |                           |                      |                     |                  |
|  |                           |                      | MAIL DATE           | DELIVERY MODE    |
|  |                           |                      | 08/24/2009          | PAPER            |

## Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|  | Application No.   | Applicant(s)  |  |  |  |  |
|--|---|---------------|--|--|--|--|
| Office Action Comments   | 10/593,698  | IIZUKA ET AL. |  |  |  |  |
| Office Action Summary  | Examiner  | Art Unit      |  |  |  |  |
|  | ZHIYU LU  | 2618          |  |  |  |  |
| The MAILING DATE of this communication appears on the cover sheet with the correspondence address<br>Period for Reply  |   |               |  |  |  |  |
| <ul> <li>A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.</li> <li>Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.</li> <li>If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.</li> <li>Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).</li> </ul> |   |               |  |  |  |  |
| Status   |   |               |  |  |  |  |
| 1)⊠ Responsive to communication(s) filed on <u>20 Se</u>   | entember 2006   |               |  |  |  |  |
|  |   |               |  |  |  |  |
| · <u> </u>   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is |               |  |  |  |  |
|  | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.               |               |  |  |  |  |
| closed in accordance with the practice under <i>Ex parte Quayre</i> , 1933 C.D. 11, 403 C.G. 213.  |   |               |  |  |  |  |
| Disposition of Claims  |   |               |  |  |  |  |
| <ul> <li>4) ☐ Claim(s) 1-9 is/are pending in the application.</li> <li>4a) Of the above claim(s) is/are withdrawn from consideration.</li> <li>5) ☐ Claim(s) is/are allowed.</li> <li>6) ☐ Claim(s) is/are rejected.</li> <li>7) ☐ Claim(s) is/are objected to.</li> <li>8) ☐ Claim(s) 1-9 are subject to restriction and/or election requirement.</li> </ul>  |   |               |  |  |  |  |
| Application Papers   |   |               |  |  |  |  |
| 9)☐ The specification is objected to by the Examiner.  |   |               |  |  |  |  |
| 10)☐ The drawing(s) filed on is/are: a)☐ acce  | 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.                           |               |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |   |               |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |   |               |  |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |   |               |  |  |  |  |
| Priority under 35 U.S.C. § 119   |   |               |  |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>  |   |               |  |  |  |  |
| Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date  | 4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:                                   | te            |  |  |  |  |
|  | , <u> </u>  |               |  |  |  |  |

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## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claim 1, drawn to a radio system with transmitter and receiver at separate stations, classified in class 455, subclass 39.

- II. Claims 2-9, drawn to a receiver, classified in class 455, subclass 130.
- 2. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the radio system does not specific circuit details of a receiver. The subcombination has separate utility such as a receiver with utilizing variable gain amplification, delay compensation, etc. for processing received signal.

The examiner has required restriction between combination and subcombination inventions. Where applicant elects a subcombination, and claims thereto are subsequently found allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

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- 3. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - I. Claim 3, drawn to a receiver of embodiment 2, Fig. 3, paragraphs 0089-0096.
  - II. Claim 4, drawn to a receiver of embodiment 3, Fig. 4, paragraphs 0097-0103.
  - III. Claim 5, drawn to a receiver of embodiment 6, Fig. 7, paragraphs 0116-0123.
  - IV. Claim 6, drawn to a receiver of embodiment 4, Fig. 5, paragraphs 0104-0111.
  - V. Claim 7, drawn to a receiver of embodiment 5, Fig. 6, paragraphs 0112-0115.
  - VI. Claim 8, drawn to a receiver of embodiment 7, Fig. 8, paragraphs 0124-0128.
  - VII. Claim 9, drawn to a receiver of embodiment 8, Fig. 9, paragraphs 0129-0135.
- 4. Claim 2 is generic to the following disclosed patentably distinct species: I, II, III, IV, V, VI and VII. The species are independent or distinct because as disclosed the different species have mutually exclusive characteristics for each identified species. In addition, these species are not obvious variants of each other based on the current record.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

There is an examination and search burden for these patentably distinct species due to their mutually exclusive characteristics. The species require a different field of search (e.g., searching different classes/subclasses or electronic resources, or employing different search queries); and/or the prior art applicable to one species would not likely be applicable to another

species; and/or the species are likely to raise different non-prior art issues under 35 U.S.C. 101 and/or 35 U.S.C. 112, first paragraph.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

The election of the species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the election of species requirement, the election shall be treated as an election without traverse. Traversal must be presented at the time of election in order to be considered timely. Failure to timely traverse the requirement will result in the loss of right to petition under 37 CFR 1.144. If claims are added after the election, applicant must indicate which of these claims are readable on the elected species.

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the species unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other species.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141.

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5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to ZHIYU LU whose telephone number is (571)272-2837. The

examiner can normally be reached on Weekdays: 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Duc Nguyen can be reached on (571) 272-7503. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Zhiyu Lu Examiner

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/Zhiyu Lu/

Examiner, Art Unit 2618

August 20, 2009